

1 What is claimed is:

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3 1. A hook assembly of a door in a washing machine, comprising:
4 a pair of supporters directly extending from an inside of a doorframe of the washing
5 machine;
6 a shaft penetrating the supporters;
7 a hook rotatably coupled to the shaft wherein a head of the shaft penetrates the
8 doorframe to be externally exposed; and
9 an elastic member provided in the doorframe to give an elastic force to the hook.
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11 2. The hook assembly as claimed in claim 1, wherein the doorframe comprises
12 separable inner and outer frames.
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14 3. The hook assembly as claimed in claim 2, wherein the supporters extend
15 from either the inner frame or the outer frame.
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17 4. The hook assembly as claimed in claim 1, further comprising stoppers
18 extending from the inside of the doorframe to prevent the shaft from being separated from the
19 supporters.
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21 5. The hook assembly as claimed in claim 4, wherein the supporters lie between
22 the stoppers.
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24 6. The hook assembly as claimed in claim 5, wherein a distance between the

25 stoppers is greater than a length of the shaft.

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27 7. The hook assembly as claimed in claim 4, wherein the doorframe comprises
28 separable inner and outer frames and wherein the stoppers extend from the inner and outer
29 frames, respectively.

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31 8. The hook assembly as claimed in claim 4, wherein each of the stoppers
32 comprises a reinforcement rib provided to one side opposite to the other side supporting a
33 corresponding end of the shaft.

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35 9. The hook assembly as claimed in claim 1, further comprising a grip having
36 one end rotatably connected to the shaft and the other end externally exposed wherein the one
37 end elastically turns the hook if the other end moves.

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39 10. The hook assembly as claimed in claim 9, wherein both ends of the elastic
40 member are connected to the hook and the grip, respectively so that the hook is moved
41 together with the grip.

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43 11. A washing machine comprising:
44 a cabinet having an entrance at a front side;
45 a tub in the cabinet;
46 a rum rotatably provided in the tub; and
47 a door assembly coupled to the cabinet to open/close the entrance, the door assembly
48 comprising:

49 a doorframe hinge-coupled to the cabinet;
50 a pair of supporters directly extending from an inside of the
51 doorframe;
52 a shaft penetrating the supporters;
53 a hook rotatably coupled to the shaft wherein a head of the shaft
54 penetrates the doorframe to be externally exposed; and
55 an elastic member provided in the doorframe to give an elastic force
56 to the hook.

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58 12. The washing machine as claimed in claim 11, wherein the doorframe
59 comprises separable inner and outer frames.

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61 13. The washing machine as claimed in claim 12, wherein the supporters extend
62 from either the inner frame or the outer frame.

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64 14. The washing machine as claimed in claim 11, further comprising stoppers
65 extending from the inside of the doorframe to prevent the shaft from being separated from the
66 supporters.

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68 15. The washing machine as claimed in claim 14, wherein the supporters lie
69 between the stoppers.

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71 16. The washing machine as claimed in claim 15, wherein a distance between the
72 stoppers is greater than a length of the shaft.

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74 17. The washing machine as claimed in claim 14, wherein the doorframe
75 comprises separable inner and outer frames and wherein the stoppers extend from the inner
76 and outer frames, respectively.

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78 18. The washing machine as claimed in claim 14, wherein each of the stoppers
79 comprises a reinforcement rib provided to one side opposite to the other side supporting a
80 corresponding end of the shaft.

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82 19. The washing machine as claimed in claim 10, further comprising a grip
83 having one end rotatably connected to the shaft and the other end externally exposed wherein
84 the one end elastically turns the hook if the other end moves.

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86 20. The washing machine as claimed in claim 19, wherein both ends of the
87 elastic member are connected to the hook and the grip, respectively so that the hook is moved
88 together with the grip.